

27th – 29th JANUARY 2015
BREMEN, GERMANY
FAIR AND CONVENTION CENTER



BI GAS

24th INTERNATIONAL CONVENTION
AND TRADE FAIR

PROGRAM

Main topics:

- The future of biogas
- Improvements of biogas system concepts
- Digestate as fertilizer
- New challenges in ecology and safety
- International: New biogas markets and Best Practice, etc.

More information at: www.biogastagung.org

Innovation rather than crisis –
Biogas can do it



With biogas into the future!

The EEG 2014 marks the beginning of a new era for the biogas sector. The situation is all but encouraging at the moment. Thanks to the untiring commitment of the German Biogas Association and so many of its committed members the worst has been prevented and much of what had been achieved in the past could be preserved. However, the next few years will only see the construction of a few small manure or waste digestion plants.

The message which the German government has sent with the revised EEG 2014 is clear: They want to ban biogas from the purview of the EEG. For those active in the sector it means the end of the financial reliability. Operators as well as manufacturers and suppliers will have to look for new markets and find profitable outlets outside the EEG: in the minute or secondary reserve, electricity feeding on an as-needed basis and new markets for the sale of heat and fuel.

Many plant owners are already giving proof of their enormous flexibility and innovation. Biogas can be a major player even in the capacity market provided the latter is forward-looking and climate-neutral instead of - as at present - technology-neutral and as such focused on old fossil power plants. Biogas plants anchored in the capacity market must be able to speed up from zero to one hundred in next to no time without emissions of harmful greenhouse gases. This disqualifies the old fossil power plants. A modern biogas plant, however, can accelerate from rest to full steam in less than five minutes – without harming the atmosphere. This is why we need biogas. Now! The required technology is available.

The Biogas – 24th International Convention and Trade Fair is an extraordinary showcase of innovation and ingenuity. As every year, this year's Conference will also be a mirror of the new markets.

Together we have to go through difficult times. But the sector is ready and willing to face new challenges constructively and help shape the future positively. And one thing of which I am firmly convinced is that we will master the fundamental change in energy policy – and biogas will and must play a decisive role in this process.

I wish you an interesting Convention and Exhibition and success for the tasks ahead of you.

Yours,

Horst Seide, President German Biogas Association

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VENUE

Bremen - Fair and Convention Center
Findorffstraße 101 / Entrance: Bürgerweide
28215 Bremen

OPENING HOURS OF THE BIOGAS EXHIBITION

Tuesday	27-1-2015	9:00 am till 6:00 pm
Wednesday	28-1-2015	9:00 am till 6:00 pm
Thursday	29-1-2015	9:00 am till 3:00 pm

REGISTRATION

NürnbergMesse GmbH
Messezentrum
90471 Nürnberg

Kristina Eberz

Phone: (0049)-(0)911 86 06 – 83 80
Fax: (0049)-(0)911 86 06 – 12 83 68
E-Mail: besucherservice@nuernbergmesse.de

ONLINE REGISTRATION

www.biogastagung.org/ticketshop

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TUESDAY 27-1-2015

9:00 am - 6:00 pm EXHIBITION

9:30 am - 1:00pm	BIOGAS BASICS** (in English)
2:00 - 5:30pm	PANEL 2*
2:00 - 3:30pm	2.1 SMALL (MANURE) PLANTS - AN OPPORTUNITY FOR (ORGANIC) FARMS?!
	Break
4:00 - 5:30pm	2.2 SEASONAL HEAT STORAGE (POWER-TO-HEAT)

2:00 - 5:00pm	WORKSHOP 2** (in English)
	Country report UK
	Country report Romania
	Country report Sweden
	Country report Italy
	Country report China

WEDNESDAY 28-1-2015

9:00 am - 6:00 pm EXHIBITION

2:00 - 5:30 pm	PANEL 4*	PANEL 5*
2:00 - 3:30 pm	4.1 RECENT DEVELOPMENTS IN SAFETY	5.1 GREENING AND FERTILIZER REGULATION AS A CHALLENGE TO OPERATORS
	Break	
4:00 - 5:30 pm	4.2 HAZARD PREVENTION IN BIOGAS PLANTS	5.2 DEVELOPMENTS ON EUROPEAN WASTE AND FERTILISER LEGISLATION
	INTERNATIONAL SPECIAL* (in English)	5:30 pm Awarding Ceremony of the Heinz Schulz Badge of Honor
2.00 - 5.30 pm	OPPORTUNITIES AND SOLUTIONS FOR THE NEW BIOGAS MARKETS	7:30 pm Evening Event

THURSDAY 29-1-2015

9:00 am - 3:00 pm EXHIBITION

9:00 - 10:30 am	PANEL 6*	PANEL 7*
9:00 - 10:30 am	6.1 EMISSION REQUIREMENTS IN CHANGE	7.1 POTENTIALS AND OPPORTUNITIES FOR THE ANAEROBIC DIGESTION OF RESIDUES AND WASTES
	Break	
11:00 am - 12:30 pm	6.2 ELECTRICITY FEEDING/MEDIUM VOLTAGE DIRECTIVE	7.2 BEST PRACTICE EXAMPLES FOR WASTE DIGESTION

FRIDAY 30-1-2015

EXCURSIONS*/**
8:00 am - 5:30 pm

* simultaneously translated into English
**please book separately

9:00 am - 6:00 pm EXHIBITION

 BIOGAS BASICS - WORKSHOP (in English)**

Chair: Oliver Gehrke, German Biogas Association

10:00 am Market overview and legal framework

Dipl. Kulturwirt Sebastian Stolpp, German Biogas Association

10:40 am Anaerobic digestion of waste and use of digestates

Dipl.-Ing. David Wilken, German Biogas Association

11:40 am Fermentation process

Dipl.-Ing. agr. Oliver Gehrke, German Biogas Association

12:20 pm Technology and safety

Dipl.-Ing. agr. (FH) Manuel Maciejczyk, German Biogas Association

 PANEL 2*

SMALL (MANURE) PLANTS -

AN OPPORTUNITY FOR (ORGANIC) FARMS?!

 BLOCK 2.1

Chair: Holger Kübler, German Biogas Association

2:00 pm Technology trends in small manure plants

Dr. Manfred Dederer, Bildungs- und Wissenszentrum Boxberg

2:30 pm Profitability of small manure plants

Robert Wagner, C.A.R.M.E.N. e.V.

3:00 pm (Small) biogas plants as an opportunity for organic farmers?

Frank Hofmann, Ecofys Germany GmbH

3:30 pm Break

SEASONAL HEAT STORAGE (power-to-heat)

 BLOCK 2.2

Chair: Otto Körner, Ecofys Germany GmbH

4:00 pm Denmark as example? - The principle of municipal heat supply

Per Alex Sørensen B.Sc., PlanEnergi

4:30 pm Beyond the EEG: Large heat stores are required!

Bene Müller, Solarcomplex AG

5:00 pm Technical and physical fundamentals and economic findings

Robert Hegele, Cupasol GmbH

 WORKSHOP 2 COUNTRY REPORTS FROM** **INTERNATIONAL BIOGAS MARKETS (in English)**

Chair: Sebastian Stolpp, German Biogas Association

2:00 - Country report UK

David Collins, Head of Biogas at REA (Renewable Energy Association)

Country report Romania

Ilias Papageorgiadis President of ARBIO (Romanian Association of Biomass & Biogas)

Country report Sweden

Göran Strandberg Product Manager for CNG/Biogas at Krafringen ABR

Country report Italy

Stefano Bozzetto, Executive Committee Member of CIB (Consorzio Italiano Biogas e Gassificazione)

Country report China

Qian Mingyu, Senior Project Manager of Sino-German

5:00 pm Project for Optimization of Biomass Utilization/Biogas

9:00 am - 6:00 pm EXHIBITION

9:30 am - 12:00 am JOINT PLENARY SESSION*

KEYNOTE PAPERS WITH PANEL DISCUSSION

Current information: www.biogastagung.org **PANEL 4***

RECENT DEVELOPMENTS IN SAFETY

 BLOCK 4.1

Chair: Dr. Sarah Gehrig, German Biogas Association

2:00 pm Present state of the Biogas Plant Ordinance

RDir Hans-Peter Ewens, Bundesministerium für Umwelt, Naturschutz, Bau und Reaktorsicherheit (BMUB)

2:30 pm Presentation of the TRGS 529 Biogas

Dipl.-Ing. Dirk Pachurka, Berufsgenossenschaft Energie Textil Elektro Medienerzeugnisse

3:00 pm Recent discussions about the safety on biogas plants

Dipl.-Ing. Josef Ziegler, Spokesman of the safety working group of the German Biogas Association

3:30 pm Break

HAZARD PREVENTION ON BIOGAS PLANTS

 BLOCK 4.2

Chair: Josef Ziegler, Spokesman of the safety working group of the German Biogas Association

4:00 pm Practical measurement of the potential CH₄ emissions of biogas plants

Dr. Joachim Clemens and David Dresen, Bonalytic GmbH

4:30 pm Experience of a biogas plant operator in the application of a safety concept

Jürgen Sudholz, Sudholz & Harting GbR

5:00 pm To have emergency situations under control - optimum planning, documentation and information sharing

Dr. Sarah Gehrig, Dr. Gehrig Management- & Technologieberatung GmbH

 PANEL 5*

GREENING AND FERTILIZER REGULATION AS A CHALLENGE TO OPERATORS

 BLOCK 5.1

Chair: Dr. Stefan Rauh, German Biogas Association

2:00 pm CAP reform and greening – main items of national implementation

Dr. Jürgen Weis, Bundesministerium für Ernährung und Landwirtschaft

2:30 pm Introducing the new requirements of the fertilization regulation

Dr. Peter Oswald, Bundesministerium für Ernährung und Landwirtschaft

3:00 pm New requirements by greening and the fertilization ordinance – what are the options of substrate selection and crop rotation for operators?

Frank Stumpf, Schmack Biogas GmbH

3:30 pm Break



DEVELOPMENTS ON EUROPEAN WASTE AND FERTILISER LEGISLATION

 BLOCK 5.2

Chair: David Wilken, German Biogas Association

4:00 pm Inclusion of digestate into EU Fertiliser Regulation

Georg Embert, Bundesministerium für Ernährung und Landwirtschaft

4:30 pm Requirements on the application and marketing of digestate on European level

Franz Kirchmeyer, Europäischer Biogas Verband (EBA)

5:00 pm EU Best Available Techniques Reference Documents (BREFs)

 INTERNATIONAL SPECIAL* (in English) **OPPORTUNITIES AND SOLUTIONS FOR THE NEW BIOGAS MARKETS**

2:00 pm Introduction to the offers by the German Development Cooperation

Clemens Findeisen, German Biogas Association

2:20 pm The biogas market in Malaysia – The palm oil industry in South East Asia is searching for solutions

William Tan, Biogas Association Malaysia

2:50 pm Trends on the Thai biogas market

Dr. Pruk Aggarangsi, Energy Research and Development, Thailand

3:10 pm Practical experiences from South-East Asia

Helmut Mueche, FARMATIC Anlagenbau

3:20 pm Panel Discussion

3:30 pm Break

4:00 pm Experiences and potentials for biogas in the agro- and food industry in Ghana and Kenya

Markus Schwaninger, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)

4:20 pm Technological solutions and adaptations to the circumstances in developing and emerging countries

Thorsten Winkler, UTS Biogastechnik

4:40 pm Brazil: Business models for a dynamic biogas market

Dr. Jens Giersdorf, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), Brazil

5:00 pm Energetic use of municipal waste in Mexico

Alvaro Zurita, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), Mexico

5:10 pm Panel discussion, summary and conclusion

5:30 pm Awarding Ceremony of the Heinz Schulz Badge of Honor

7:30 pm Evening Event

THURSDAY 29-1-2015

9:00 am - 3:00 pm EXHIBITION

 PANEL 6*

EMISSION REQUIREMENTS IN CHANGE

 Block 6.1

Chair: Manuel Maciejczyk, German Biogas Association

9:00 am Analysis of emissions from biogas plants and possible action scenarios

Dr. Jan Liebetrau, Deutsches Biomasseforschungszentrum gGmbH DBFZ

10:10 am Response of a cogeneration plant manufacturer to the new statutory requirements for emission avoidance

Frank Grewe, 2G Energy AG

10:40 am Break

9:30 am New statutory developments for emissions from biogas-powered engines

Dipl.-Ing. Anja Nowack, FG III 2.1 - Umweltbundesamt - Dessau

 ELECTRICITY FEEDING/MEDIUM VOLTAGE DIRECTIVE Block 6.2

Chair: Josef Götz, German Biogas Association

11:00 am One year experience with the certification of cogeneration plants according to the Medium Voltage Directive

Dipl.- Ing. Joachim Kohrt, 8.2 Consulting AG

11:30 am Experience of a cogeneration plant manufacturer with the units certification

Markus Sigloch, B. Eng., SCHNELL Motoren AG

12:00 am System stability regulation - don't panic!

Vinzenc Lücken, August Storm GmbH & Co KG

12:30 pm End

 PANEL 7* **POTENTIALS AND OPPORTUNITIES FOR THE ANAEROBIC DIGESTION OF RESIDUES AND WASTES** **BLOCK 7.1**

Chair: Dr. Markus Helm, Gutachtergemeinschaft Biogas GmbH

09:00 am Collection of food waste from commercial kitchens, hotels and hospitals

Matthias Jäger, ACO Passavant GmbH

09:30 am Results of UFOPLAN research project on the obligation of the separate collection of organic household waste

Rüdiger Oetjen-Dehne, Umwelt- und Energie-Consult GmbH

10:00 am Optimized methods for anaerobic digestion of organic residues and biowastes

Dr. Martin Wittmaier, Hochschule Bremen

10:30 am Break

 BEST PRACTICE EXAMPLES FOR WASTE DIGESTION BLOCK 7.2

Chair: Dr. Markus Helm, Gutachtergemeinschaft Biogas GmbH

11:00 am Plant concepts for the anaerobic digestion of municipal waste and industrial residues in Turkey

Alfons Himmelstoss, AEV Energy GmbH

11:20 am Highest substrate flexibility and an intelligent biogas valorization concept – the AD Plant ZEMKA (Austria)

Stephan Schulte, BTA International GmbH

11:40 am Problem with press water? Anaerobic digestion of biowaste by Kompogas without producing liquid digestate in the Netherlands, Italy and Germany

Michael Oertig, Axpo Kompogas Engineering AG

12:00 am The Dranco process: Reference plants in Belgium and other countries

Winfried Six, Organic Waste Systems NV

12:30 pm End

* simultaneously translated into English

**please book separately

EXCURSIONS*/ (with simultaneous translation)**
8:00 am - 5:30 pm

Traditionally, the Friday after the Annual Conference is the day for excursions to selected biogas plants in the area around Bremen where participants can see practical examples in a working environment. If you want to take part in an excursion, please register separately for it. The number of participants is limited by the number of seats in the bus. You cannot take part in an excursion by using your own car. We will have two excursions each to two biogas plants::

Renewable Resources Tour:

Visit to biogas plants with gas treatment, small manure plant and different heat concepts.

Waste Tour:

Visit to biogas plants digesting different types of residue and applying different digestion methods.

8:00 pm Meeting time at the Fairgrounds
(signposts will guide you during the conference)

8:15 pm Bus departure

Lunch We will have lunch together (included) at about 5.30 pm arrival at the Fairgrounds / main railway station.

COSTS / EXHIBITION

PLENARY SESSION COSTS / EXCURSION / WORKSHOPS / BIOGAS BASICS

For **Members** of the German Biogas Association / EBA

Plenary Session			Workshop 2 BIOGAS BASICS	Excursion
27/1	28/1	29/1		
75 EUR	95 EUR	75 EUR	each 100 EUR	120 EUR
125 EUR				
	125 EUR			
190 EUR				

For **non-members** of the German Biogas Association / EBA

Plenary Session			Workshop 2 BIOGAS BASICS	Excursion
27/1	28/1	29/1		
210 EUR	290 EUR	210 EUR	each 100 EUR	120 EUR
460 EUR				
	460 EUR			
590 EUR				

ADMISSION FEE

Visit of the Biogas-exhibition (no registration required)

Day ticket	18,00 EUR
Day ticket for students	5,00 EUR

Free for members of the German Biogas Association (identify as a member). Online-Tickets via www.biogastagung.org/ticketshop

IMPORTANT NOTES

- **Services:** The Conference fee includes the catering and the proceedings volume (USB-flash drive). Registrations for 15/1/27, or 15/1/29 include coffee breaks with drinks, cake or a snack, registrations for 15/1/28 include, in addition, lunch and the evening gala. Participants in the BIOGAS BASICS workshops will also be entitled to a lunch on 15/1/27.
- **Evening gala:** Registrations for Wednesday, 15/1/28, automatically include the evening gala. Additional registrations for the gala can be obtained prior to the event. Remaining tickets, if any, will be sold during the Conference. Admission to the evening gala without a ticket is not possible.
- **Workshops:** Admission to the Workshops is limited exclusively to members of the German Biogas Association – with the exception of Workshop 2 and BIOGAS BASICS (both in English). These Workshops are open to all. Attendance to the Workshops is limited, however; registrations will be handled as they come in. If a Workshop is fully booked, no further admission is possible.
- **Reductions:** On submission of proof (with photo), representatives of authorities and students are eligible to a non-recurrent discount of 30% on the regular entrance price to the plenary session. The participation in the Workshop and/or the conference also permits the holder to visit the BIOGAS Exhibition on the day of participation.

REGISTRATION AND PAYMENT

Payment against invoice is possible until 14/12/28. Later registrations are accepted against payment by account or credit card or at the cash desk. The registration deadline is 15/1/10. For later registrations or registrations at the conference venue an administrative charge of 15% of the conference fee will be made. Conference materials are available at the conference venue after full payment of participation fees. Free cancellation is possible in writing only and not later than 15/1/10. After that, the full amount of the participation fee will be charged. Exceptions are only possible against proof; exceptions will be handled after the conference. To claim exception, please send an e-mail to info@biogas.org. Please register early and remember that participation in the Workshops, Excursions and the evening event is limited.

BIOGAS EXHIBITION

The Biogas Exhibition in hall 4 and 5 is the international Biogas-Community's most important meeting place. As a professional visitor you have the opportunity to get a detailed picture of the new trends. On the trade fair you will find:

- Production engineers / Biogas plant manufacturers
- Manufacturers / Suppliers of plant components
- Substrate preparation
- Agricultural engineering/ Biomass logistics
- Services / Consultings
- Special range digestate
- Exhibitor expert forum with more than 30 lectures

Registration by fax: +49 (0)911 86 06-12 83 68

BIOGAS 24th International Convention and Trade Fair

Registration address (please print)

Address/title	First name	Surname
Firm/institution		
Street		ZIP/city or town
Phone/fax		e-mail

- Authority / college / student (proof of status)
 Press (proof of status)

For explanation of costs, see side 6.

I will take part in the plenary session of the Biogas 24th International Convention:

- 15/1/27 15/1/28 15/1/29

I'm planning to visit the following panels: (nonbinding, you can change the panel during the convention)

- | | |
|--|--|
| <input type="checkbox"/> Joint Plenary Session 15/1/28 | <input type="checkbox"/> P6.1. Emissions |
| <input type="checkbox"/> P2.1. Small (manure) plants | <input type="checkbox"/> P6.2. Biomethane |
| <input type="checkbox"/> P2.2. Heat storage | <input type="checkbox"/> P7.1. Fermentation of biogenic residues |
| <input type="checkbox"/> P4.1. Developments in safety | <input type="checkbox"/> P7.2. Best Practice |
| <input type="checkbox"/> P4.2. Hazard prevention | <input type="checkbox"/> P7.2. Best Practice waste digestion |
| <input type="checkbox"/> P5.1. Greening / Fertilizer Regulation | <input type="checkbox"/> International Special |
| <input type="checkbox"/> P5.2. European developments in waste and fertilizer law | |

I will take part in the workshop

- BIOGAS BASICS on January 27th, 2015 from 10.00 am - 1.00 pm
 WS 2 Country Reports on January 27th, 2015 from 2.00 - 5.00 pm

Please register early.
The participation fee is 15 % higher for registrations after the official closing date 15/1/10 to account for extra administrative effort.

Online registration:
www.biogastagung.org/ticketshop

Closing date for registrations: January 10, 2015
 (An administration charge of 15% is made for later registrations)
 Payment on account till December 28, 2014



Invoice address

Registration address = invoice address

Address/title	First name	Surname
Firm/institution		
Street		ZIP/city or town
Phone/fax		e-mail

- Please send information material for **membership** in the German Biogas Association
 I am a **member** of the German Biogas Association

membership number (mandatory)

I will take part in an excursion on January 30th, 2015

- Renewable Resources Tour Waste Tour

Please register early; number of participants is limited.

- I would not like my name to be entered in the list of attendants which is issued at the meeting. (The list of attendants contains the following data: Firm name, attendant's name, company address)

- I pay
 against **invoice** (December, 28th, 2014)
 by **credit card**

Card holder's name

Card number

Verification number not valid after

- Mastercard VISA American Express

HOST AND CONTACT

HOST

German Biogas Association

Headquarters

Angerbrunnenstr. 12

85356 Freising, Germany

Phone: (0049)-(0)81 61 - 98 46-60

Fax: (0049)-(0)81 61 - 98 46-70

E-Mail: info@biogas.org

www.biogastagung.org

www.biogas-kanns.de

www.biogas.org

www.farbe-ins-feld.de

With more than 4,700 members, the German Biogas Association is the largest German and European body representing the interests of the biogas sector. It represents manufacturers, of biogas plants and components, planners and agricultural and industrial biogas plant owners throughout Germany. The object of the association's work is to enlarge the production and use of biogas for the nationwide generation of electricity and heat and fuel production, to strengthen the industrial location Germany and to develop an effective climate protection.

Media partners:

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∞

Agentur für
Erneuerbare
Energien

EBA
European Biogas Association



REGISTRATION FOR PLENARY SESSION AND EXHIBITION

NürnbergMesse GmbH

Messezentrum

90471 Nürnberg, Germany

Kristina Eberz

Phone: (0049)-(0)911 86 06 – 83 80

Fax: (0049)-(0)911 86 06 – 12 83 68

E-Mail: info@biogastagung.org

ONLINE REGISTRATION

www.biogastagung.org/ticketshop

HOTEL RESERVATIONS

congresscheck

Bultstr. 7 – 9

30159 Hannover, Germany

Phone: (0049)-(0)511-898813-0

Fax: (0049)-(0)511-898813-11

E-Mail:

info@congresscheck.de

or online at:

www.biogastagung.org

LOCATION MAP

Trade Fair

Convention
Workshops
Press Centre

